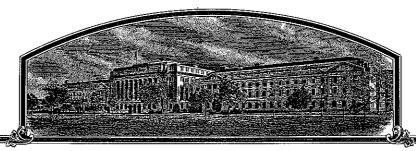
No.



THIR UNITED STATES OF AMERICA

Monsanto Jechnology I. I. C.

MICCORS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TILLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE TRAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

SION THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY IT ARE PROMITED THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPUBLISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SUBJECT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR CRITING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT TO BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'I119135'

In Jestimonn Mucros, I have hereunto set my hand and caused the seal of the Plant Unrichn Frotestion Office to be affixed at the City of Washington, D.C. this twenty-ninth day of April, in the year two thousand and eight.

Re-3

Commissioner
Plant Variety Protection Office
Agricultural Markoting Service

Columned T. Schafer

y of Agriculture

REPRODUCE LOCALLY, include form number and date on all	i reproductions		Form Approved - OMB No. 0581-0055			
U.S. DEPARTMENT OF AC AGRICULTURAL MARKETI SCIENCE AND TECHNOLOGY - PLANT VA	ING SERVICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) at the Paperwork Reduction Act (PRA) of 1995.				
APPLICATION FOR PLANT VARIETY PF (Instructions and information collection but		Application is required in order to determine if a plant variety protection certificate is to be issue (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
NAME OF OWNER Monsanto Technology L.L.C.		TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VARIETY NAME			
		None	1119135			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and	d ZIP Code, and Country)	5. TELEPHONE (include area code) (815) 758-9281	FOR OFFICIAL USE ONLY PVPO NUMBER			
800 N. Lindbergh Blvd. Créve Coeur, MO 6316	· · · · · · · · · · · · · · · · · · ·	6. FAX (include area code)	\dashv onendao			
U.S.A.	,	(815) 758-3117	200500162 FILING DATE			
 IF THE OWNER NAMED IS NOT A "PERSON", GIVE FOR ORGANIZATION (corporation, partnership, association, etc. 			Feb. 24, 2005			
Corporation	Delaware	August 27, 1999	160, 27, 200			
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE	(S) TO SERVE IN THIS APPLICATION. ((First person listed will receive all papers)	F FILING AND EXAMINATION FEES: E \$ 3652,00			
Timothy R. <u>K</u> ain	8.4:_1	haali Dii	R DATE 7/24/05			
8350 Minnegan Road	44.4	hael J. Roth N. Lindbergh Blvd	E CERTIFICATION FEE:			
Waterman, IL 60556		e Coeur, MO 63167	T . 768.00			
U.S.A.	U.S.	A.	E DATE 4/4/08			
11. TELEPHONE (Include area code)	12. FAX (Include area code)	13. E-MAIL	14. CROP KIND (Common Name)			
(815) 758-9281	(815) 758-3117	trkain@monsanto.com 16. FAMILY NAME (Botanical)	Corn, Field			
15. GENUS AND SPECIES NAME OF CROP Zea mays	15. GENUS AND SPECIES NAME OF CROP		17. IS THE VARIETY A FIRST GENERATION HYBRID?			
Lea mays		Graminae	☐ YES X NO			
 CHECK APPROPRIATE BOX FOR EACH ATTACHMENT (Follow instructions on reverse) 		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act)				
a. X Exhibit A. Origin and Breeding History of the Varie	aty	YES (if "yes", answer items 20 and 21 below) X NO (if "no", go to item 22)				
 b. X Exhibit B. Statement of Distinctness c. X Exhibit C. Objective Description of Variety 		20. DOES THE OWNER SPECIFY THAT SEED OF THIS YES NO VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED 21. DOES THE OWNER SPECIFY THAT SEED OF THIS YES NO VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.				
d. Exhibit D. Additional Description of the Variety (O)	otional)					
e. X Exhibit E. Statement of the Basis of the Owner's C						
f. X Voucher Sample (2,500 viable untreated seeds or, venification that tissue culture will be deposited and repository)						
g. X Filing and Examination Fee (\$3,652), made payable States" (Mail to the Plant Variety Protection Office)	e to "Treasurer of the United	FOUNDATION REGISTERED CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)				
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATE FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRAN		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENTS?				
OR OTHER COUNTRIES?		X YES NO				
X YES	NO E, DISPOSITION, TRANSFER, OR	IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)				
FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Pla	ease use space indicated on reverse.)					
24. The owners declare that a viable sample of basic seed of for a tuber propagated variety a tissue culture will be depo	the variety has been furnished with applic sited in a public repository and maintaine	cation and will be replenished upon request in accept for the duration of the certificate.	cordance with such regulations as may be applicable, or			
The undersigned owner(s) is(are) the owner of this sexual and is entitled to protection under the provisions of Section	y reproduced or tuber propagated plant v n 42 of the Plant Variety Protection Act.	ariety, and believe(s) that the variety is new, dist	inct, uniform, and stable as required in Section 42,			
Owner(s) is(are) informed that false representation herein	can jeopardize protection and result in pe	enalties.				
SIGNATURE OF OWNER MOTHER.	0	SIGNATURE OF OWNER				
NAME (Please print or type)		NAME (Please print or type)				
Timothy R. Kain						
CAPACITY OR TITLE Patent Scientist	DATE 2/21/05	CAPACITY OR TITLE E	DATE			
ST-470 (02-10-2003) designed by the Plant Variety Protection Office using World	d 2000. Replaces former versions of ST-470, while	ch are obsolete.	(See reverse for instructions and information collection burden statement)			

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filling fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

> **Plant Variety Protection Office** Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21, CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Parent of a hybrid sold in the U.S. - March 2004

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

U.S. Patent Application No. 10/819,093 - filed April 6, 2004 (I119135)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filling a change of address. The fee for filling a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The yalid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotepe, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer. ST-470 (02-10-2003) designed by the Plant Variety Protection Office with

EXHIBIT A

Origin and Breeding History I119135

Corn Variety I119135 was selected for its greater yield potential, improved grain quality, greater vigor, earlier flowering date and greater combining ability.

Winter 1995-96	The inbred line 3AZA1 (a proprietary DEKALB Genetics Corporation inbred) was crossed to the inbred line 87DIA4 (a proprietary DEKALB Genetics Corporation inbred) in nursery rows E35 and E83 in the Kihei Elite Section.				
Summer 1996	The S0 seed was grown and self-pollinated in nursery row 96AR 224-33				
Winter 1996-97	The S1 seed was grown and self-pollinated in nursery rows 97Hi2X36-47 thru 97Hi2X36-41. 140 ears were selected.				
Summer 1998	S2 ears were grown ear-to-row and self-pollinated. 7 ears were selected in nursery row 98A126-30-2.				
Winter 1998-99	S3 ears were grown ear-to-row and self-pollinated. In nursery row 98HAHISS58-14, 2 ears were selected.				
Summer 1999	S4 ears were grown ear-to-row and self-pollinated. In nursery row 99ARL 332-44, 1 ear was selected.				
Winter 1999-00	S5 ear was grown ear-to-row and self-pollinated. 2 ears from nursery row MXSS 1227.2 were selected.				
Summer 2000	S6 ears were grown ear-to-row and self-pollinated. 3 ears from nursery row 00AR3 000525.2 were selected and designated as corn variety I119135 .				
Winter 2000-01	S7 ears were grown ear-to-row and self-pollinated. 4 ears from nursery row 00KLS 1100.03 were selected.				
Summer 2001	S8 ears were grown ear-to-row and self-pollinated. Final ear-to-row selection was made of 20 ears from nursery rows 01AR3 000711-000720.				

Statement of Stability and Uniformity

Corn Variety I119135 was coded in 2000. This variety has been reproduced by self pollination for three generations and judged to be stable. Corn Variety I119135 is uniform for all traits observed.

Statement of Variants

Corn Variety I119135 shows no variants other than what would normally be expected due to environment or that would occur for almost any character during the course of repeated sexual reproduction.

EXHIBIT B (revised)

Statement of Distinctness

Monsanto Technology L.L.C. believes that Corn Variety I119135 is most similar to Corn Variety 3AZA1, (PVP No. 9600027) an inbred developed by DEKALB Genetics Corporation.

Corn Variety I161538 and 3AZA1 differ most significantly in the following traits:

Trait	l119135	3AZA1
Glume Color	Red	Green
	(2.5 R 5/8)	(5 GY 4/8)
Ear Position	Upright	Pendent

Corn Variety I119135 has red glume color and an upright ear position while comparative corn variety 3AZA1 has green glume color and pendent ear position.

EXHIBIT B (revised)

Description of Experimental Design

The corn varieties I119135, 3AZA1 and CM105 were grown at the Waterman, IL observation nursery in years 2002-2003. The varieties were planted in 2 row plots with 15 plants per row in each of the three years. Trait data were collected on 10 random representative plants for most traits from each 2 row plot. Data on qualitative traits are usually collected on 10 plants from each 2 row plot. For Exhibit C all data were pooled and reported as means across the years for subject variety and the standard variety with standard deviation. The varieties are randomly planted in a 4.5 acre observation nursery which is located within a larger 18 acre field. Besides the observation nursery, this field consists of a research seed increase nursery and an IP seed inventory nursery. The location of each of these individual nurseries is rotated each year to a different location within the 18 acre field. Therefore subject inbreds are not planted adjacent to comparative or standard varieties and may be located in different areas of the larger field each year, therefore being influenced by spacial differences within the field. Growing conditions within the field are not uniform as there are some slight topographical variations such as lower areas which may accumulate and retain water or higher areas which are usually drier. The field is tiled and therefore a variety maybe planted close to a tile line while a comparative variety maybe planted further away and in a low spot within the field. Temporal varieties can exist as weather conditions from year to year can vary as well as planting dates can vary from year to year based on weather conditions. Weather conditions each year can vary the maturity rate of the varieties due to either favorable or unfavorable growing conditions.

Trait variability is not observed for each variety within its own test plot-plants are usually uniform and data are collected on the "most" representative plants- variability occurs due to spacial location of the test plot for that variety from year to year and to the temporal variation of weather conditions from year to year during the 2-3 years data are collected.

Waterman Research Station Weather Data 2002-2003

Date	Average Precip. (mm)	Ave. Monthly Temp – Max. (F°)	Ave. Monthly Temp-Min (F°)	Ave. Monthly Rel. Humid Max (%)	Ave. Monthly Rel. Humid – Min (%)
June 2002	5.3	81.3	60.4	90.7	47.7
July 2002	1.5	87.0	64.9	93.2	48.3
August 2002	5.7	83.1	61.0	96.0	51.8
Sept. 2002	1.5	79.4	52.6	95.0	42.7
June 2003	1.7	76.0	54.0	90.6	44.3
July 2003	3.3	82.0	60.0	93.6	53.2
August 2003	1.3	84.0	61.0	93.0	50.5
Sept 2003	2.1	74.0	51.0	92.4	42.9

FORM SD-470-28 (9-1-92)

United States Department of Agriculture, Agricultural Marketing Service Science Division, Plant Variety Protection Office National Agricultural Library Building, Room 500 Beltsville, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY CORN (Zea mays L.)

Name of Applicant(s)		Variety Seed Sou	ırce	Variet	y Name or Te	mporary	Designation
Monsanto Technology L.L.C.				V01100	I119		20019.0020.
Address (Street & No., or R.F.D. No., City, State, Zip Code and Country)						i	
Address (Street & No., or R.F.D. No., City, State, Zip Code and	na Country)			FOR OF	FICIAL USE		
800 N. Lindbergh Blvd. Creve Coeur, MO U.S.A.				PVPO N	lumber 200500	160	۷
Place the appropriate number that describes the varietal chara- whole numbers by adding leading zeroes if necessary. Complete Traits designated by a '*' are considered necessary for an ac-	eness should	be striven for	to esta	blish .	an adequate :	elow. R variety	ight justify description.
COLOR CHOICES (Use in conjunction with Munsell color code to describe all color choices; 01=Light Green 06=Pale Yellow 11=Pink 16=Pale 02=Medium Green 07=Yellow 12=Light Red 17=Purple 03=Dark Green 08=Yellow-Orange 13=Cherry Red 18=Color 04=Very Dark Green 09=Salmon 14=Red 19=White 05=Green-Yellow 10=Pink-Orange 15=Red & White 20=White					and #26 in Co 21=Buff 22=Tan 23=Brown 24=Bronze 25=Variega 26=Other (ted (Des	cribe)
STANDARD INBRED CHOICES(Use the most similar (in background and maturity) of these to make comparisons based on grow-out trial da Yellow Dent Families: Yellow Dent (Unrelated): Sweet Corn: Co109, ND246, C13, Iowa5125, P39, 2132							
B14 CM105, A632, B64, B68 B37 B37, B76, H84 B73 N192, A679, B73, NC268 C103 Mo17, Va102, Va35, A682 Oh43 A619, MS71, H99, Va26 WF9 W64A, A554, A654, Pa91	Oh7, T23 W117, W1 W182BN White Den CI66, H1	53R		S Pi	pcorn: G1533, 4722, pecorn: o15W, Mo16W,		НР7211
1. TYPE: (describe intermediate types in Comments section) * 2 1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornamental	7=Pipecorn		2 Sta	ındard	Inbred Name	CM105	
2. REGION WHERE DEVELOPED IN THE U.S.A.: * 2 1=Northwest 2=Northcentral 3=Northcast 4=Southcast 6=Southwest 7=Other	5=Southcent	ral	2 Sta	andard	Seed Source	NCRPIS	
 MATURITY (In Region Best Adaptability; show Heat Unit form section): 	ula in "Com	ments"	DAYS	3	HEAT U	NITS	
DAYS HEAT UNITS * 0 7 0 1 4 1 0.0 From emergence to 50% of p	olants in si	1 k		3	1 4 0	0.5	
* 0 6 8 1 3 5 4.0 From emergence to 50% of p			0 !	5 9	1 2	9 2.5	
From 10% to 90% pollen she	=						
(*) From 50% silk to optimum e		tv		_			
From 50% silk to harvest a							
The second secon		Sample Size			Standard Dev	iation	Sample Size
* 2 0 0. 2 cm Plant Height (to tassel tip) 4.		30	1 4	4. 1	6.9		20
* 0 6 0.2 cm Ear Height (to base of top ear node) 4.		30	0 4		5.3		20
0 1 3.8 cm Length of Top Ear Internode 0.		30		. 0.9			20
Average Number of Tillers							
* 1. 0 Average Number of Ears per Stalk 0.	0	30	n (1.0	0.0		20
3 Anthocyanin of Brace Roots: 1=Absent 2=Faint 3=			2	1. 0			
Application Variety Data	Pag	e 1	Stand	lard In	ored Data	<u> </u>	

Application Variety Data	Page	2	Standard Inbred Data					
5. LEAF:	Standard Deviation	Sample Size	Sta	ndard Deviation	n Sample Size			
* 0 0 9.3 cm Width of Ear Node Leaf	0.2	30	0 0 7.2	0.8	20			
\star 0 7 1.4 cm Length of Ear Node Leaf	0.5	30	0 6 0.6	3.2	20			
* 6. 4 Number of leaves above top ear	0.6	30	5.8	0.6	15			
3 0. 0 degrees Leaf Angle {measure from 2nd leaf above ear at	0.3 anthesis to stalk abo	30 ve leaf)	4 7.8	7.9	20			
* 0 2 Leaf Color (Munsell code 5 GY 4/8)			0 2 (Munsell	code 5 GY 4/8)				
7 Leaf Sheath Pubescence(Rate on scal	ie from 1=none to 9=pea	ch fuzz)	1					
4 Marginal Waves (Rate on scale from	1=none to 9=many)		6					
5 Longitudinal Creases (Rate on scale	e from 1=none to 9=many)	5					
6. TASSEL:	Standard Deviation	Sample Size	Sta	ndard Deviation	n Sample Size			
* 4. 6 Number of Primary Lateral Branches	1.6	30	5. 4	1.4	20			
1 5. 0 Branch Angle from Central Spike	1.6	30	3 2.0	6.3	20			
* 3 1.8 cm Tassel Length	3.3	30	3 3.2	3.9	20			
(from top leaf collar to tassel tip) 3. 8 Pollen Shed (Rate on scale from 0=male s	sterile to 9=heavy shed)	4.3					
1 1 Anther Color (Munsell code 2.5 R 7/6)			0 7 (Munsell	code 2.5 Y 8/1	10)			
1 4 Glume Color (Munsell code 2.5 R 5/8)	Color (Munsell code 2.5 R 5/8)				1 2 (Munsell code 2.5 R 5/8)			
1 Bar Glumes (Glume Bands): 1=Absent 2=Pre	esent		1					
7a. EAR (Unhusked Data):								
* 0 5 Silk Color (3 days after emergence) (Munse	11 code 2.5 GY 8/6)		0 7 (Munsell	code 2.5 Y 8/	10)			
0 2 Fresh Husk Color (25 days after 50% silkin	g) (Munsell code 5 GY	4/8)	0 2 (Munsell code 5 GY 4/8)					
2 1 Dry Husk Color (65 days after 50% Silking)	(Munsell code 2.5 Y 8	/4)	2 1 (Munsell	code 2.5 Y 8/4	1)			
* 1 Position of Ear at Dry Husk Stage: 1=Uprig	ht 2=Horizontal 3=Pend	ent	1					
7 Husk Tightness (Rate on scale from 1=very	loose to 9=very tight)		9					
1 Husk Extension (at harvest): 1=Short (ears 3=Long (8-10 cm beyond ear			2					
7b. EAR (Husked Ear Data):	Standard Deviation	Sample Size	Sta	ndard Deviation	n Sample Size			
* 1 2.8 cm Ear Length	3.7	30	1 4.4	1.8	20			
* 3 6.8 mm Ear Diameter at mid-point	2.1	30	3 7.8	1.5	20			
9 9.4 gm Ear Weight	4.3	30	8 7.5	7.2	20			
* 1 4.6 Number of Kernel Rows	2.0	30	1 3.6	0.8	20			
2 Kernel Rows: 1=Indistinct 2=Distinct			2					
1 Row Alignment: 1=Straight 2=Slightly	Curved 3=Spiral		1					
0 8.4 cm Shank Length	0.2	30	0 5.8	1.4	15			
2 Ear Taper: 1=Slight 2=Average 3=Extre	me		2					
Application Variety Data			Standard Inbre					

Note: Use chart on first page to choose color codes for color traits.

Application Variety Data	Page	Page 3		Standard Inbred Data		
8. KERNEL (Dried):	Standard Deviation	Sample Size	s	tandard Deviation	Sample Size	
1 0.1 mm Kernel Length	0.1	30	9. 0	1.2	15	
0 7.6 mm Kernel Width	1.1	30	0 8.3	0.7	15	
0 4.4 mm Kernel Thickness	0.8	30	0 5.5	1.4	15	
% Round Kernels (Shape Grade)			4 2. 1	3.1	50 0 gg	
1 Aleurone Color Pattern: 1=Homozygous 2	=Segregating		1			
(*) 1 9 Aleurone Color (Munsell code Lighter t	han 2.5 Y 9/2)		1 9(Munsel	l code Lighter tha	n 2.5 Y 9/2)	
* 0 7 Hard Endosperm Color (Munsell code Lig	hter Than 2.5 Y 8/10)		0 7 (Munsell code 2.5 Y 8/10)			
* 0 3 Endosperm Type: 1=Sweet (su1) 2=Extra 4=High Amylose Starch 5=Waxy Starch 6 8=Super Sweet (se) 9=High Oil 10=Othe	=High Protein 7≕High Ly	arch sine	0 3			
2 5. 2 gm Weight per 100 Kernels (unsized sam	ple) 1.9	1800 seeds	2 2.8	3. 6	1000 seeds	
9. COB:	Standard Deviation	Sample Size	s	tandard Devaition	Sample Size	
* 2 2.6 mm Cob Diameter at mid-point	1.3	30	2 5. 9	1.5	15	
1 4 Cob Color (Munsell code 5 R 3/8)			1 4 (Munse	ll code 5 R 3/8)		
10. DISEASE RESISTANCE (Rate from 1 (most susceptib leave blank if not tested; leave Race or St	le) to 9 (most resistan rain Options blank if p	t); olygenic):			, , , , ,	
A. Leaf Blights, Wilts, and Local Infection Diseas	es					
6 Anthracnose Leaf Blight (Colletotrichum gramini 6 Common Rust (Puccinia sorghi) Common Smut (Ustilago maydis) 8 Eyespot (Kabatiella zeae) 6 Goss's Wilt (Clavibacter michiganense spp. nebr 5 Gray Leaf Spot (Cercospora zeae-maydis) 4 Helminthosporium Leaf Spot (Bipolaris zeicola) i 4 Northern Leaf Blight (Exserohilum turcicum) Race 8 Southern Leaf Blight (Bipolaris maydis) Race 0 Southern Rust (Puccinia polysora) 6 Stewart's Wilt (Erwinia stewartii) Other (Specify)	askense) Race 2		7 - 6 5 4 8 Race 2 3 Race 1 6 Race 0			
B. Systemic Diseases						
Corn Lethal Necrosis (MCMV and MDMV) Head Smut (Sphacelotheca reiliana) Maize Chlorotic Dwarf Virus (MCDV) Maize Chlorotic Mottle Virus (MCMV) Maize Dwarf Mosaic Virus (MDMV) Strain Sorghum Downy Mildew of Corn (Peronosclerospora Other (Specify)	sorghi)		2 - - - - - - - - - - - - - - - - - - -	·		
C. Stalk Rots						
Anthracnose Stalk Rot (Colletotrichum graminico. Diplodia Stalk Rot (Stenocarpella maydis) Fusarium Stalk Rot (Fusarium moniliforme) Gibberella Stalk Rot (Gibberella zeae) Other (Specify)	la)		- - - -			
D. Ear and Kernel Rots						
Aspergillus Ear and Kernel Rot (Aspergillus flat Diplodia Ear Rot (Stenocarpella maydis) Fusarium Ear and Kernel Rot (Fusarium moniliform Gibberella Ear Rot (Gibberella zeae)			 - - -			
Other (Specify)						

Application Variety Data	Pa	ge 4	Standard Inbred	i Data	
11. INSECT RESISTANCE (Rate from 1 (most susceptible) to 9	(most resista	nt);			
leave blank if not tested): _ Banks Grass Mite (Oligonychus pratensis) _ Corn Earworm (Helicoverpa zea) _ Leaf-Feeding	Standard Deviation	Sample Size	-	Standard Deviation	Sample Size
Ear Damage Corn Leaf Aphid (Rhopalosiphum maidis) Corn Sap Beetle (Carpophilus dimidiatus) European Corn Borer (Ostrinia nubilalis) 1 st Generation (Typically Whorl Leaf Feeding) 2nd Generation (Typically Leaf Sheath-Collar Feeding) Stalk Tunneling:)		, -		
Maize Weevil (Sitophilus zeamaize) Northern Rootworm (Diabrotica barberi) Southern Rootworm (Diabrotica undecimpunctata) Southwestern Corn Borer (Diatraea grandiosella) Leaf Feeding Stalk Tunneling:			- - - -		
Two-spotted Spider Mite (Tetranychus urticae) Western Rootworm (Diabrotica virgifera virgifera) Other (Specify)					
12. AGRONOMIC TRAITS:					
6 Stay Green (at 65 days after anthesis) (Rate of to 9=excellent.) 0 0.0 % Dropped Ears (at 65 days after anthesis)	on a scale from	n 1=worst	0 0.0		
0 0.0 % Pre-anthesis Brittle Snapping			0 0.0		
0 0.0 % Pre-anthesis Root Lodging			0 0.0		
0 0.0 % Post-anthesis Root Lodging (at 65 days after			0 0.0		
Kg/ha Yield of Inbred Per Se (at 12-13% grain	n moisture)		_		
13. MOLECULAR MARKERS: (0=data unavailable; 1=data available	le but not supp	olied; 2=data su	pplied)		
_ Isozymes RFLP's RAPD's					
REFERENCES:					
Butler, D.R. 1954. A System for the Classification of Corr Emerson, R.A., G.W. Beadle, and A.C. Fraser. 1935. A Summa Farr, D.F., G.F. Bills, G.P. Chamuris, A.Y. Rossman. 1989. Phytopathological Society, St. Paul, MN. Inglett, G.E. (Ed.) 1970. Corn: Culture, Processing, Production McGee, D.C. 1988. Maize Diseases. APS Press, St. Paul, MM. Munsell Color Chart for Plant Tissues. Macbeth. P.O. Box. The Mutants of Maize. 1968. Crop Science Society of Americ Shurtleff, M.C. 1980. Compendium of Corn Diseases. APS Presprague, G.F., and J.W. Dudley (Editors). 1988. Corn and C. Madison, WI. Stringfield, G.H. Maize Inbred Lines of Ohio. Ohio A.E.S., U.S. Department of Agriculture. 1936, 1937. Yearbook.	ary of Linkage. Fungi on Plan acts. Avi Publ. n, and Uses. Jo. 150 pp. 230. Newburgh, ba. Madison, Wiess, St. Paul, Corn Improvemen	Studies in Maiz nt and Plant Pro ishing Company, ohn Wiley & Sons N.Y. 12551-0230 I. MN. 105 pp. nt, Third Editio	e. Cornell A.E.S., ducts in the Unite Westport, CT. , New York.	, Mem. 180, ed States. The A	
COMMENTS (eg. state how heat units were calculated, standar D):	rd inbred seed	source, and/or	where data was co.	llected. Continu	ue in Exhibit
Heat Unit Calculation: GDU = Daily Max Temp ($\leq 86^{\circ}$ F) + Dai	ly Min Temp (>	=50°F) - 50°F			
Supplemental data provided for pollen shed, ear weight, % r data and 2006 seed inventory data.			00 kernels from 2	006 production p	parent test

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions.	ORM APPROVED - OMB No. 0581-00
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E	Application is required in order to det certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued.)	421). The information is held
STATEMENT OF THE BASIS OF OWNERSHIP 1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	To Warden Value
1. NAME OF ALL EIGHT(S)	OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Monsanto Technology L.L.C.		l119135
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
800 N. Lindbergh Blvd.	(815) 758-9281	(815) 758-3117
Creve Couer, MO 63167	7. PVPO NUMBER	
U.S.A.		200500162
8. Does the applicant own all rights to the variety? Mark an "X" in the	appropriate block. If no, please explai	n. X YES NO
•		
·	•	
		<u> </u>
9. Is the applicant (individual or company) a U.S. national or a U.S. ba	sed company? If no, give name of co	untry. X YES NO
·		
10. Is the applicant the original owner?	NO If no, please answer one one	f the following:
		
a. If the original rights to variety were owned by individual(s), is (a		
YES	NO If no, give name of country	•
	•	
h if the original rights to various years guined by a communities) in	Anna Marandalia da Anna Anna Anna Anna Anna Anna Anna	
b. If the original rights to variety were owned by a company(ies), is	(are) the original owner(s) a U.S. base NO If no, give name of country	
	i no, give name of country	
11. Additional explanation on ownership (Trace ownership from original	I breeder to current owner. Use the rev	verse for extra space if needed):
		,
Corn Variety I119135 was originated and dove	long d by a based.	
Corn Variety I119135 was originated and deve Technology L.L.C. By agreement between Mo	noped by a preeder employed b	y Monsanto
inghis to any invention, discovery or developme	ent are assigned to Monsanto T	echnology I I C
No rights to such invention, discovery or development	opment are retained by the bree	ecimology E.E.C. eder.
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licensee	es) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that personational of a country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection.	on must be a U.S. national, national of ie U.S. for the same genus and species	a UPOV member country, or
If the rights to the variety are owned by the company which employed nationals of a UPOV member country, or owned by nationals of a cou- genus and species.	t the original breeder(s), the company nuntry which affords similar protection to	nust be U.S. based, owned by nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the orig	ginal owner and the applicant must mee	et one of the above criteria.
The original breeder/owner may be the individual or company who direc Act for definitions.	ted the final breeding. See Section 41(a)(2) of the Plant Variety Protection

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